

Metadata for “A large annotated dataset of vocalizations by common marmosets”

Charly Lamothe^{1,2,*}, Manon Obliger-Debouche^{1,*}, Paul Best², Régis Trapeau¹, Sabrina Ravel¹, Thierry Artières², Ricard Marxer², Pascal Belin¹

¹La Timone Neuroscience Institute UMR 7289, CNRS, Aix-Marseille University, Marseille, France. ²Laboratoire d'Informatique et Systèmes UMR 7020, CNRS, Aix-Marseille University, Marseille, France. *These authors contributed equally to this work. ✉e-mail: charlylmth@gmail.com, obliger.manon@gmail.com, pascal.belin@univ-amu.fr.

- Table 1. Annotation details.
- Table 2. Vocalization type error rates.
- Table 3. Description of recorded subjects.
- Table 4. Temporal distribution of vocalizations by label over time.
- Figure 1. Individual presence over time with family group.

Column name	Description
parent_name	Name of the folder containing the vocalization file, using the format YYYY_MM_folder ID
file_name	Name of the .wav file containing the vocalization, using the format Type_ID.flac
label	Type of vocalization as classified by the model: Phee, Trill, Seep, Twitter, Tsik, Infant cry, or Vocalization by default
duration	Length of the vocalization file in seconds
year	Start year of vocalization
month	Start month of vocalization
day	Start day of vocalization
hour	Start hour of vocalization (since 2022)
minute	Start minute of vocalization (since 2022)
second	Start second of vocalization (since 2022)
millisecond	Start millisecond of vocalization (since 2022)

Table 1. Annotation details. Descriptions of each column of the annotation file.

Label	Error rate (%)	Accuracy (%)	CI lower (%)	CI upper (%)
Infant cry	0.00	100.00	100.00	100.00
Phee	0.00	100.00	100.00	100.00
Seep	21.00	79.00	71.00	87.00
Trill	17.00	79.00	71.00	87.00
Tsik	15.00	85.00	78.00	92.00
Twitter	1.00	99.00	97.00	100.00
Vocalization	7.00	93.00	88.00	98.00
Average	8.71	91.29	87.00	95.00

Table 2. Vocalization type error rates. 700 recordings (100 per label type) were re-reviewed by 4 experts. Errors were noted for inconsistencies or lingering uncertainties.

Marmoset ID	Mother ID	Father ID	Date birth	Date death	Date entrance	Date exit	Sex
1	-	-	2013-12-13	-	2019-06-22	-	F
2	-	-	2013-09-23	2020-06-26	2019-06-22	2020-06-26	M
3	1	2	2018-10-22	-	2019-06-22	-	M
4	1	2	2019-03-29	-	2019-06-22	2021-08-20	F
5	-	-	2016-04-04	2022-03-07	2019-06-22	2022-03-07	M
6	-	-	2012-08-27	2020-06-18	2019-06-22	2020-06-18	F
7	6	5	2018-11-01	-	2019-06-22	-	F
8	6	5	2019-03-30	-	2019-06-22	2021-05-03	F
9	6	5	2019-03-30	-	2019-06-22	2021-05-03	F
10	-	-	2011-10-11	-	2019-06-22	-	F
11	-	-	2013-04-09	2020-01-29	2019-06-22	2020-01-29	M
12	10	11	2018-08-08	-	2019-06-22	-	F
13	10	11	2019-01-11	-	2019-06-22	-	F
14	10	11	2019-01-11	-	2019-06-22	-	F
15	1	2	2019-09-06	-	2019-09-06	2021-08-11	M
16	6	5	2019-09-06	-	2019-09-06	2021-05-03	F
17	10	11	2019-11-21	-	2019-11-21	-	M
18	10	11	2019-11-21	-	2019-11-21	-	F
19	1	2	2020-02-23	-	2020-02-23	2021-08-11	M
20	1	2	2020-02-23	-	2020-02-23	2021-09-03	M
21	1	2	2020-08-03	-	2020-08-03	2021-09-03	M
22	7	3	2020-12-07	-	2020-12-07	2023-02-03	M
23	7	3	2020-12-07	-	2020-12-07	2023-03-17	M
24	1	5	2021-02-13	-	2021-02-13	2023-01-06	F
25	1	5	2021-02-13	-	2021-02-13	-	F
26	1	5	2021-07-21	-	2021-07-21	-	F

27	1	5	2021-07-21	-	2021-07-21	-	M
28	7	3	2021-10-04	-	2021-10-04	-	M
29	7	3	2021-10-04	-	2021-10-04	2023-02-03	F
30	1	5	2022-01-26	-	2022-01-26	-	M
31	1	5	2022-01-26	-	2022-01-26	-	F
32	7	3	2022-05-02	-	2022-05-02	-	M
33	7	3	2022-05-02	-	2022-05-02	-	M
34	7	3	2022-11-04	-	2022-11-04	-	F
35	7	3	2022-11-04	-	2022-11-04	-	F

Table 3. Description of recorded subjects. Date of entrance and exit correspond to the period when the subject was inside the room and then recorded. Sex codes correspond to F female and M male.

Date Type	Infant cry	Phee	Seep	Trill	Tsik	Twitter
2019-12	10.03	11.14	5.85	0.84	13.65	58.50
2020-01	36.53	19.03	1.91	3.98	2.94	35.62
2020-02	2.91	11.61	3.52	5.57	14.36	62.02
2020-03	3.72	14.13	6.40	7.52	38.41	29.82
2020-05	2.16	15.11	12.95	22.30	9.35	38.13
2020-06	6.45	12.90	6.45	40.32	0.00	33.87
2020-07	16.44	25.63	2.44	19.19	25.56	10.74
2020-09	7.01	14.92	2.18	29.34	30.51	16.04
2020-10	18.73	11.31	1.52	19.34	30.10	19.00
2020-11	9.41	10.45	2.09	20.02	36.30	21.74
2020-12	3.36	8.30	1.49	20.25	50.51	16.10
2021-01	17.52	10.09	1.14	11.31	28.45	31.49
2021-09	20.97	30.24	1.52	4.71	7.29	35.26
2022-01	1.80	21.79	2.73	9.49	17.55	46.65
2022-02	9.26	13.24	2.62	15.17	30.88	28.84
2022-03	32.28	13.60	2.14	12.12	14.21	25.65
2022-04	7.33	15.58	1.68	27.13	24.59	23.69
2022-09	0.16	23.73	1.25	24.02	17.79	33.06
2022-10	0.25	24.24	1.54	27.59	16.86	29.53
2022-12	26.72	12.73	2.39	13.88	22.45	21.83
2023-02	28.40	24.12	1.08	5.54	9.09	31.78
2023-03	6.74	27.29	2.37	8.45	16.62	38.54
2023-04	4.52	29.85	2.29	9.75	14.65	38.93

Average	13.78	17.66	2.17	14.35	21.69	30.36
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Table 4. Temporal distribution of vocalizations by label over time. Distribution of 215,000 labeled vocalizations (72 hours in total). For each month, the proportion of vocalization type is indicated in %. The proportion of labeled/unlabeled vocalization is 25/75% (unlabeled omitted here).

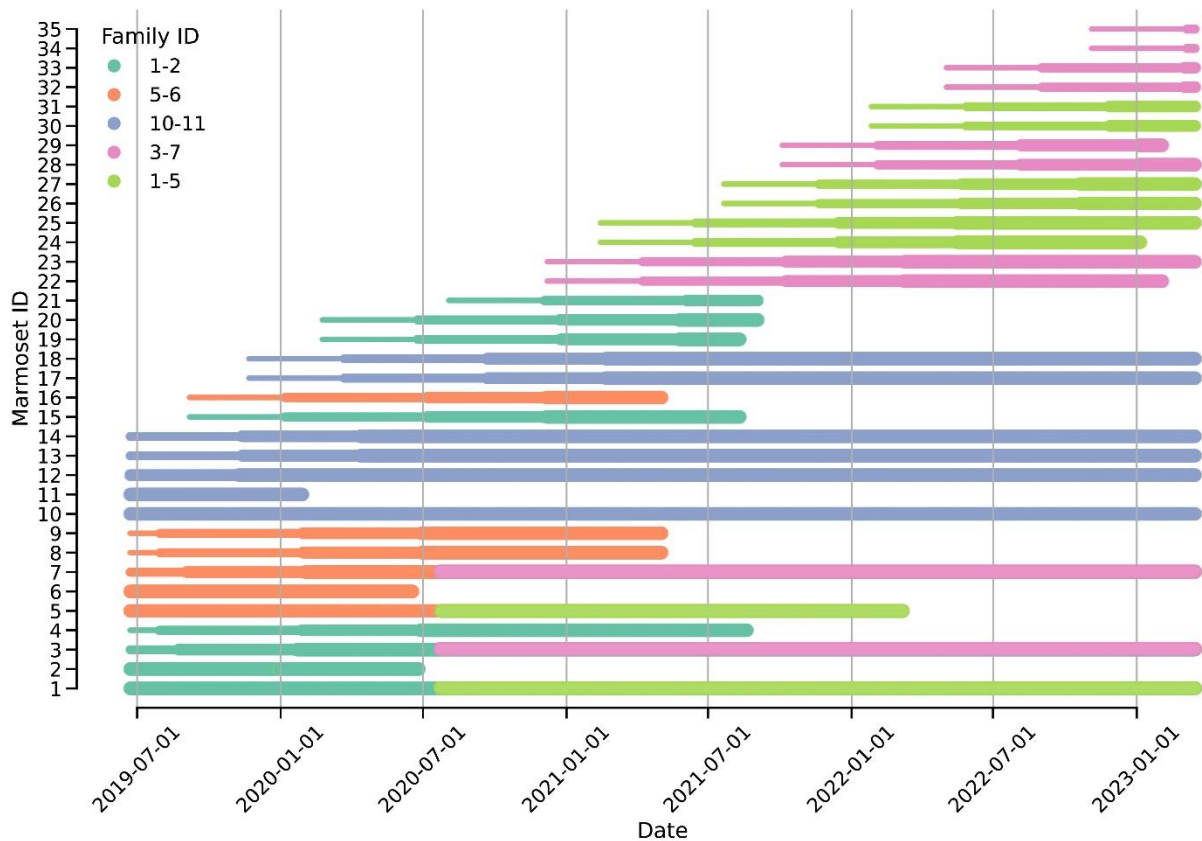


Figure 1. Individual presence over time with family group. Each point represents the presence of a marmoset identified by their unique Marmoset ID. The color of the points indicates the family group, with distinct colors assigned to each family. The three original families are rooted in the couples 1-2, 5-6, and 10-11. Marker size reflects the age category of the marmoset at the time of observation (based on ¹): smaller markers (size 10) represent infants (0-4 months), medium markers (size 40) indicate juveniles (5-10 months), larger markers (size 70) denote subadults (11-15 months), and the largest markers (size 100) correspond to adults (16+ months). The x-axis represents the observation date, while the y-axis displays the Marmoset IDs, arranged in ascending order from top to bottom. The group structure was sometimes disturbed by conflicts or deaths. Sometimes, the helpers from family A stayed with certain families while the new babies from couple B were growing up. But afterward, when the offspring of couple B were old enough, they were removed to avoid fights. For example, one of couple A's parents was also in couple B, hence the choice to keep helpers from couple A.

References

1. de Castro Leão, A., Duarte Dória Neto, A. & Bernardete Cordeiro de Sousa, M. New developmental stages for common marmosets (*Callithrix jacchus*) using mass and age variables obtained by K-means algorithm and self-organizing maps (SOM). *Computers in Biology and Medicine* **39**, 853–859 (2009).